## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. SON-2924 Kou Nagata First Inventor SEMICONDUCTOR MEMORY DEVICE, REPAIR SEARCH

- Statement Begarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - British Sammay of the Investion - Calam'ts - Detain Sammay of the Investion - British Sammay of the Investion - Calam'ts - Detain Sammay of the Investion - British Sammay of the Investion - Calam'ts - Detain Sammay of the Investion - British Sammay of the Investion - Calam'ts - Detain Sammay of the Investion - British Sammay of the Investion - Calam'ts - Detain Sammay of the Investion - British Sammay of the Investion Sammay of the Investigation Sammay of Sammay of the Investigation Sammay of the Investi	METHOD, AND SELF-REPAIR METHOD									
APPLICATION ELEMENTS  See MPEP chapter 600 concerning utility.pdient spility eligin cortents.  1. X Fee Transmittal Form (2.5. PTO/SB/17  2. Applicant claims small subjects for the processing) 2. Applicant claims small standard and subjects for the processing) 3. X Specification 4. See 37 CFR 1.27  3. X Specification 6. Corespictation (Total Pages S6) 1. (orderind arrangement sat forth below) 6. Describes tills of the invention 6. Corespictation (CRF) 6. Describes tills of the invention 6. Describes tills of the invention 7. Corespictation (CRF) 8. Specification Sequence Listing on 8. Nucleotide and/or Annion Acid Sequence Submission (Irapplicable, all necessary) 8. Nucleotide and/or Annion Acid Sequence Submission (Irapplicable), all necessary) 9. Assignment Pagersing for Sequence Submission 1. Corespictation (CRF) 1. Corespictation Sequence Listing on 1. Corespictation Sequence Submission 1. Corespictation of COPR (2 copies), or ii. Corespictation of COPR (2 copies), or ii. Corespictation of Commission of CRF) 9. Assignment Pagersis (cover sheet & document(s)) 10. (ordering arrangement of the Invention of Commission of CRF) 10. Specification Sequence Listing on 11. Corespictation of Corespondence address below 15. Corespondence address below 16. Nonpublication Repair of Corespondence address below 17. Corespondence addre	(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express	ss Mail Label No.							
See MFEP chapter 600 concerning utility, bright happlications contents.  1. X   Fee Transmitat Form 65, PTOISB17)  1. X   Seburnal arrangement and form 65, PTOISB17)  2. Applicant claims small entity status.  See 37 CFR 1.27.  3. X   Specification Trotal Pages   56   1    Consumer of the inventors of the invent	a ser le de la come este de la la la del de la									
1. X   Some an acceptance of a solution for the processing) 2. Set 37 CFR 1.27. 3. X   Specification 4.   Specification   Paper   5.   Specification   Paper   5.   Specification   Paper   5.   Specification   6.   Computer Program (Appendix) 7.   CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8.   Nucleotite and/or Amino Acid Sequence Submission (if applicable, all necessary) 9.   Computer Readable Form (CRF) 9.   Specification Sequence Listing on: 1.   CD-ROM or CD-R (2 copies); or ii.   Paper   9.   Specification Sequence Listing on: 1.   CD-ROM or CD-R (2 copies); or ii.   Paper   9.   Assignment Papers (cover sheet & document(s)) 10.   37 CFR 3.73(b) Statement (MSP)PTO-1449   11.   English Translation Document (if applicable) 11.   English Translation Document (if applicable) 12.   Information Disclosure   13.   Preliminary Amendment   14.   X Round Paper Postard (MPEP 503)   15.   X Certifical Copy of Priority Document(s)   16.   Application Data Sheet. See 37 CFR 1.76   17.   Other:   18.   If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the fifty, or in an Application Data Sheet under 37 CFR 1.75   18.   If a CONTINUING APPLICATION Check appropriate box, and supply the requisite information below and in the first sentence of the specification following the fifty, or in an Application Data Sheet under 37 CFR 1.75   19.   Other:   19.   CORRESPONDENCE ADDRESS      X Customer Number:   23353   OR   Correspondence address below      RADER, FISHMAN & GRAUER PLLC   Ronald P. Kananen   Registration No. (Attomey/Agent)   24,104	See MPEP chapter 600 concerning utility patent application con	itents.	ADDRESS TO: Commissioner for Patents P.O. Box 1450							
Beid Summary of the Invention Beid Description of the Drawings (if filed) Detailed Description of the Drawings (if filed) Detailed Description Caim(s) Asstract of the Discoure  I (i) Drawing(s) (35 U.S.C. 113) Drawing(s) (35 U.S.C. 113) Total Sheets Drawing(s) (15 U.S.C. 113) Total Sheets Drawing(s) (35 U.S.C. 113) Total Sheets Drawing(s) (37 U.S.C. 113) Total Sheets Drawing(s) (35 U.S.C. 113) Total Sheets Drawing(s) (45 U.S.C. 114) Total Sheets Drawing(s) (45 U.S.C. 114) Total She	1. X Fee Transmittal Form (e.g., PTO/SB/17) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. X Specification [Total Pages 56]  (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table,		7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or ii. Paper							
- Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Asstract of the Disclosure  4.			ACCOI	MPANYING A	PPLI	CATION PARTS				
5. Oath or Declaration  a. Newly executed (original or copy)  b. Copy from a prior application (37 CFR 1.63(d))  i. DELETION OF INVENTOR(S)	Brief Description of the Drawings (if filed)     Detailed Description     Claim(s)	0. 37 CFR 3.	t 3.73(b) Statement Power of							
a. Newly executed (original or copy)  b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The Incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  12. Statement (IDS)/PTO-1449 Critations (Should be specifically itemized) (Incorporation Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  17. Other:  Art Unit:  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The Incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number:  23353  OR  Correspondence address below  RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen  Registration No. (Attomey/Agent)  24,104	4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 13	] 1	1. English Tr	ranslation Docum	nent (ii	f applicable)				
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with 80x 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(q)(2) and 1.33(b).  Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application, from which an oath or declaration is supplied under 80x 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 23353 OR Correspondence address below  RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen  Address  1233 20th Street, N.W. Suite 501  City Washington State DC Zip Code 20036  Country US  Name (Print/Type) Bonald/P. Kananen  Registration No. (Attomey/Agent) 24,104	5. Oath or Declaration [Total Sheets 2	2 1	11Z. 1							
International Continuation   International Continuational Continuation   International Continuation	a. Newly executed (original or copy)	1	3. Preliminar	ry Amendment						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner Art Unit:  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 23353  OR Correspondence address below  RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen  Address 1233 20th Street, N.W. Suite 501  City Washington State DC Zip Code 20036  Country US Telephone (202) 955-3750 Fax (202) 955-3751  Name (Print/Type) Ronald P. Kananen  Registration No. (Attorney/Agent) 24,104	i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application,	15. X (Should be specifically itemized)  15. X (Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.								
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner Ant Unit:  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS  X Customer Number: 23353 OR Correspondence address below  RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen  1233 20th Street, N.W. Suite 501  City Washington State DC Zip Code 20036  Country US Telephone (202) 955-3750 Fax (202) 955-3751  Name (Print/Type) Ronald P. Kananen  Registration No. (Attomey/Agent) 24,104	6. Application Data Sheet. See 37 CFR 1.76									
X         Customer Number:         23353         OR         Correspondence address below           Name         RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen           Address         1233 20th Street, N.W. Suite 501           City         Washington         State         DC         Zip Code         20036           Country         US         Telephone         (202) 955-3750         Fax         (202) 955-3751           Name         (Print/Type)         Bonald P. Kananen         Registration No. (Attorney/Agent)         24,104	specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner  Art Unit:  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by									
Name         RADER, FISHMAN & GRAUER PLLC Ronald P. Kananen           Address         1233 20th Street, N.W. Suite 501           City         Washington         State         DC         Zip Code         20036           Country         US         Telephone         (202) 955-3750         Fax         (202) 955-3751           Name         (Print/Type)         Ronald P. Kananen         Registration No. (Attorney/Agent)         24,104	19. CORRESPONDENCE ADDRESS									
Ronald P. Kananen	X Customer Number: 23353 OR Correspondence address below									
Suite 501     City   Washington   State   DC   Zip Code   20036     Country   US   Telephone   (202) 955-3750   Fax   (202) 955-3751     Name (Print/Type)   Ronald P. Kananen   Registration No. (Attorney/Agent)   24,104										
Country         US         Telephone         (202) 955-3750         Fax         (202) 955-3751           Name (Print/Type)         Bonald P. Kananen         Registration No. (Attorney/Agent)         24,104	1233 20th Street, N.W.									
Name (Print/Type) Ronald P. Kananen Registration No. (Attorney/Agent) 24,104		е	DC Zip Code 20036							
	Country US Tele	phone (	202) 955-3750	) F	ax	(202) 955-3751				
	Name (Print/Type)   Bonald/Pl. Kananen		Registration No.	. (Attorney/Agent	)	24,104				
Signature Date February 10, 2004										

PTO/SB/17 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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EEE TOANGMITTAI						L	Compl t if Known							
FEE TRANSMITTAL						.	Application Number Not Yet Assigned							
for EV 2002						Ī	Filing Date February					10, 2004		
for FY 2003						1	First Named Inventor Kou Naga				ata			
Effective 01/01/2003, Patent fees are subject to annual revision.							Examiner Name Not Yet Assigne							
Applicant claims small entity status. See 37 CFR 1.27					Ì	Art Unit N/A								
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Name						1052	50	2052	25	Surcharge – late provisional filing fee or cover				
The Director										sheet.				
		ndicated			overpayments	1053	130	1053	130	Non-English	n specificatio	n		
Charge applicati		aitional f	ee(s) during	the pendency of t	INIS	1812	2,520	1812	2,520	-		parte reexamination		
Charge	fee(s)	indicated	below, exc	ept for the filing t	fee	1804	920*	1804	920*	Requesting Examiner as		of SIR prior to		
to the above				-		1805	1,840*	1805	1,840*	Requesting Examiner a	equesting publication of SIR after			
		FEE	CALCUL	ATION		1251	110	2251	55		tension for reply within first month			
1. BASIC	FILIN	G FEE	:			1252	410	2252	205	Extension for	or reply within	n second month		
Large Entity	Sma	II Entity	/			1253	930	2253	465	Extension for	or reply within	n thìrd month		
Fee Fee Code (\$)	Fee		Fee	Description	Fee Paid	1254	1,450	2254	725	Extension fo	or reply within	n fourth month		
1001 770	200		Utility fil	ing fee	770.00	1255	1,970	2255	985	Extension for reply within fifth month				
1002 330	200		•	filing fee		1401	320	2401	160	Notice of Appeal				
1003 520	200	3 260	_	-		1402	320	2402	160	Filing a brief in support of an appeal				
1004 750	200	4 375	Reissue	filing fee		1403	280	2403	140	Request for oral hearing				
1005 160	200	5 80	Provisio	nal filing fee		1451	1,510	1451	1,510	Petition to in				
SUBTOTAL (4) (\$) 770.00						1452	110	2452	55	Petition to re	etition to revive – unavoidable			
SUBTOTAL (1) (\$) 770.00							1,300	2453	650	Petition to revive - unintentional				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE						1501	1,300	2501	650	Utility issue fee (or reissue)				
			Extra Claims	Fee from below	Fee Paid	1502	1502 470 2502 235 Design issue f				e fee			
Total Claims	24	-20**	= 4	x 18 =	72.00	1503	503 630 2503 315 Plant issue f			fee				
Independent	4	-3** ;	= 1	x 86 =	86.00	1460	1460 130 1460 130 Petitions to			the Commissioner				
Claims Multiple Dependent = 158.00					1807	50	1807	50	Processing	fee under 37	CFR 1.17(q)			
				1806	180	1806	180	Submission	of Information	on Disclosure Stmt				
Large Entity Fee Fee	Fee	Fee	-	Ean Deansintin	ND.	8021	40	8021	40			ssignment per		
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1202 18 1201 84	2202			excess of 20 ent claims in exc	ess of 3	1809	750	2809	375	(37 CFR 1.1		final rejection		
1203 280	2203		•	ependent claim, i		1810	750	2810	375	For each additional invention to be examined (37CFR 1.129(b))				
1204 84	2204		** Reissu	e independent cla	•	1801	750	2801	375	Request for Continued Examination (RCE)				
1205 18	2205	5 9		iginal patent	e of 20	1802	900	1802	900		expedited e	xamination		
1 4						Other fee (specify)								
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SUBMITTED BY											(Complete	(if applicable))		
Name (Print/1		Ronal	d P. Khi	nagen			ration No		.104		T	(202) 955-3750		
<del></del>	/			/		(Allomey/Agent)					February 10, 20			
Signature /// /											1	i obluary 10, 20	,.,	